

ROAD ANGEL<sup>TM</sup> *Halo*



User Guide

## DISCLAIMER & COPYRIGHT

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ROAD ANGEL Group Ltd assumes no responsibility for any damage or injury resulting from the use of this product.

Under no circumstances should ROAD ANGEL products be operated by the driver whilst the vehicle is in motion.

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UV/solar reflective screens block GPS signals from entering the vehicle and may affect the operation of your ROAD ANGEL Halo. Heated screens can also affect GPS signal strength.

## WARRANTY & REGISTRATION

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Your ROAD ANGEL Halo is guaranteed for one year from the date of purchase from all manufacturing defects that occur with normal use. If your unit fails to perform as specified in this user guide, please visit:

[www.roadangelgroup.com](http://www.roadangelgroup.com) or call 01327 855586.

Your device is supplied with a 12 month warranty starting from the date of purchase. To activate this please log on and register your unit for free at [www.roadangelgroup.com](http://www.roadangelgroup.com).

Activation of the warranty and/or continued use of this product by you, will constitute full acceptance of the Disclaimer and Copyright notice and the terms there under. If this product is installed in a vehicle that is used by people other than yourself, you accept and agree without reservation that it is your obligation to notify other vehicle users as to the safe working usage of this product.

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## ENVIRONMENTAL & COMPLIANCE

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### Product Disposal Instructions

The symbol shown here and on the product means that it is classed as Electrical or Electronic Equipment and should not be disposed with other household or commercial waste at the end of its working life.



The Waste of Electrical and Electronic Equipment (WEEE) Directive (2002/96/EC) has been put in place to recycle products using best available recovery and recycling techniques to minimise the impact on the environment, treat any hazardous substances and avoid the increasing landfill.

For more information please contact your local authority or the retailer where the product was purchased.

This product has been designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) and has been designed and type-tested to comply with EU requirements and carries a CE mark.



## SAFETY PRECAUTIONS

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- Do not disassemble or modify this product
- Only use this product with the power cables supplied
- Avoid small objects and liquids from entering the product
- Do not leave this product in direct sunlight for prolonged periods of time or exposed to excessively high temperatures
- Ensure that this product does not obstruct your view of the road

## THANK YOU FOR CHOOSING ROAD ANGEL HALO

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With 'crash for cash' scams on the increase and payouts worth £400m a year, it's never been more important to record your journeys on the road and be prepared for any incidents that may occur along the way. Crash for cash claims add on average £14 to each of our premiums, but if you're unlucky enough to be personally victimised, not only is your health at risk but your insurance premium could rise by up to 30%.

ROAD ANGEL Halo is specifically designed to fight back against fraudulent claims as a simple, discreet accident camera suitable for use in any vehicle. Halo continuously records and saves footage as you drive, and in the event of an accident uses G-Force sensors to capture the footage in an event file. This footage is then saved separately and can later be used as evidence in a claim.

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With built-in GPS technology and Google Maps, Halo is able to pin-point where your vehicle was and the GPS speed it was travelling at the time of an accident\*. The optional sound recording feature also means, if switched off, you can retain your privacy as you drive. Both cameras allow for clear, reliable footage with viewing angles of 150°, a HD resolution of 1280p x 720p in the forward facing camera and 640p x 480p in the rear.

\* UV/solar reflective screens block GPS signals from entering the vehicle and may affect the operation of your ROAD ANGEL Halo. Heated screens can also affect GPS signal strength.

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## HALO FEATURES

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### HD resolution, high quality video recording

- Front camera includes CMOS imaging sensor allowing high quality HD (1280 x 720) recording at 20 fps
- Rear camera allows (640 x 480) recording at 10fps

### Wide angle

- 150° horizontal wide angle camera lens

### Built-in high sensitivity microphone

- Voice recording along with video recording
- Optional privacy button

### Multiple recording modes

- Real time recording, Event recording, Manual recording, Motion sensor recording (enabled when in Parking mode, Parking mode only available when used with Halo hardwire kit)

### Built-in 3 axis acceleration sensor

- Detects external impact using 3 axis sensor and activates Event recording

## HALO FEATURES

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### Built-in back-up battery

- In the event of an incident, the Road Angel Halo will use its small internal battery to continue the event file recording\*

### Built-in GPS

- Video recording with accurate location, date and time

### Instructive User Interface

- Provides LED indications, sound effects, and voice prompts

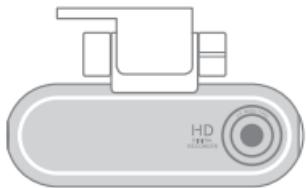
### PC Application

- Allowing product configuration and video playback

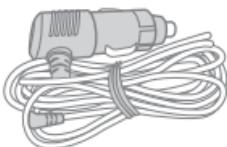
\* Please note: If power is removed the length of the clip recorded will be determined by battery charge at the time of event.

## PACKAGE CONTENTS

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Halo Front Camera



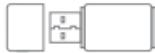
In-Car Power Cable



16GB Micro SD Card



USB Micro SD Card Reader



USB Stick Containing  
User Manual and Halo  
Player Software



Quick-Start Guide



Rear Camera  
(With Connection Lead)



10 x Adhesive Wire Clips

## BEFORE YOU START

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Product registration  
Preparing for use  
Anatomy of Halo  
Camera installation

## BEFORE YOU START

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### Product Registration

Before operating Halo please visit our website at [www.roadangelgroup.com](http://www.roadangelgroup.com) to register your product and activate your 12 month warranty.

### Preparing for use

Remember to check the camera position and angle before operation.



Video quality may degrade with severe backlight, at night or when you enter dark environments such as tunnels, car parks etc.



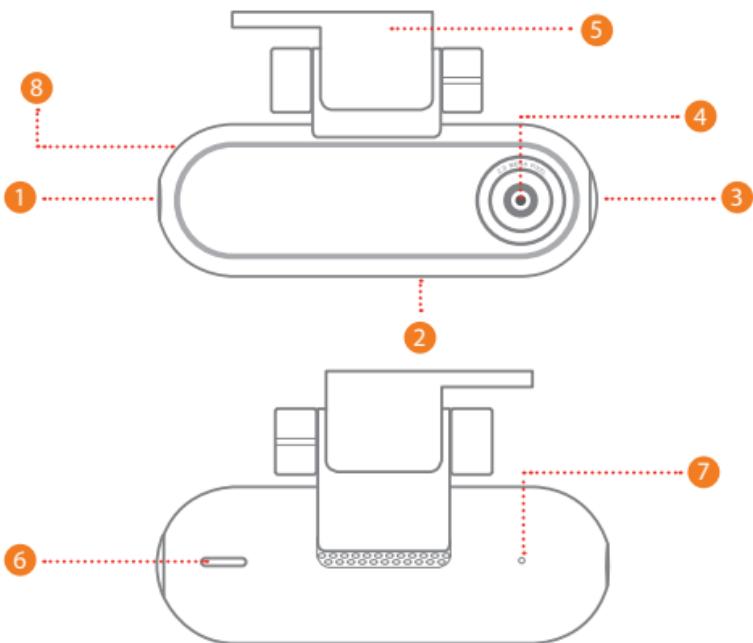
Excessive window tinting may affect the quality and colour balance of video.



Ensure that your windscreen is clean (inside and out) for the best possible video quality.



## Anatomy of Halo



1. Power connector
2. Micro SD card slot
3. Control button
4. Camera lens
5. Mounting bracket
6. LED indicator
7. Microphone
8. Rear camera port

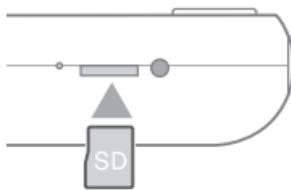
## BEFORE YOU START

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### Camera Installation

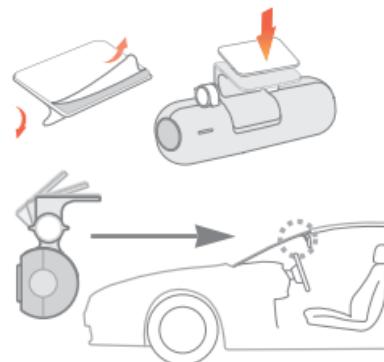
#### 1. Inserting the memory card

Insert the supplied Micro SD card into the slot as per the illustration on the right, being careful to insert it the correct way around. Inserting the Micro SD card will automatically format the card for use with Halo.



#### 2. Installing Halo in your vehicle

It is recommended that Halo is mounted in an elevated position in your vehicle, with a location between the rear view mirror and the windscreens being particularly effective. Halo is affixed to the windscreens using the sticky pad supplied. Simply remove the backing material and apply pressure to ensure a secure fix.



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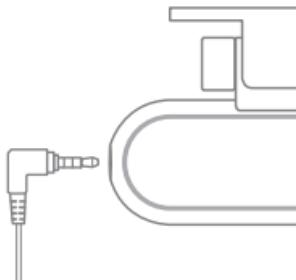
### 3. Powering Halo

Using the power lead supplied, plug Halo into your vehicle's cigarette lighter socket. A red LED will illuminate and an audible alarm will sound. The red LED will then change to blue, signifying that Halo has commenced recording.

### 4. Camera angle and cable management

Pay particular attention to the angle of the camera to ensure that it has an unobstructed line of sight and is angled correctly to cover the widest possible viewing area.

Use the self-adhesive wire retention clips supplied to channel any visible cables away from your field of view and to maintain a tidy interior. Alternatively cables can be hidden in the vehicle by a professional installer.

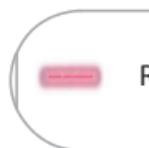




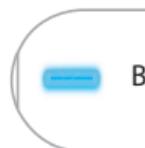
- Start-up sequence
- Micro SD card
- Real time recording
- Manual recording
- Event recording
- Parking mode recording
- Micro SD card removal
- Power removal

## Start-Up Sequence

Apply power to Halo, a red LED will illuminate and an audible alarm will sound to denote that Halo is powering up. The red LED will then change to blue, signifying that Halo has commenced Real time Recording mode.



RED: Powering Up



BLUE: Recording

## Micro SD Card

If no SD card is detected, Halo will alternate between RED and BLUE LED illumination. A voice alert will instruct you to insert a Micro SD Card.



ALTERNATING BETWEEN **RED** and **BLUE** LEDs: No Micro SD Card in device

## USING HALO

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### Real time recording:

Halo begins real time recording automatically on power up,  
this is indicated with a BLUE LED.



### During real time recording:

Pressing the Control Button once turns the microphone on/off.

Pressing the Control Button twice activates Manual Recording mode.

Pressing and holding the Control Button formats the Micro SD card.

In Real time recording mode Halo will continue to save individual files  
(each 60 seconds in length) and starts to overwrite the oldest files when  
the folder on the SD card reaches the set storage allotment.

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## Start Manual Recording

Pressing the Control Button twice when in Real time Recording mode will activate Manual Recording mode.

Manual Recording will save a 30 second video clip - combining 15 seconds from before mode activation with 15 seconds of footage from after mode activation.

When in Manual Recording mode Halo's LED indicator will flash **RED**.

Halo will automatically revert back to Real time Recording after 15 seconds, signified by the LED returning to constant a **BLUE**.



**BLINKING RED:** Manual Recording mode engaged



**BLUE:** Real time Recording mode engaged

## USING HALO

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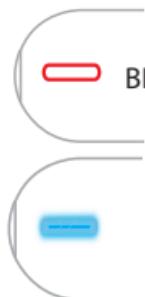
### Start Event Recording

If Halo's shock sensor detects impact during Real time Recording or Parking mode, Event Recording will automatically engage.

Event Recording will save a 30 second video clip - combining 15 seconds from before mode activation with 15 seconds of footage from after mode activation.

When in Event Recording mode Halo's LED indicator will flash **RED**.

Halo will automatically revert back to Real time Recording after 15 seconds, signified by the LED returning to constant a **BLUE**.



**BLINKING RED:** Manual Recording mode engaged

**BLUE:** Real time Recording mode engaged

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When using Halo's optional hardwire kit, Halo will automatically recognise when the car's ignition has been switched off and will enter Parking mode after a short period of time.

While in Parking mode, Halo will constantly monitor for either movement in the camera's viewing area, or for impacts via the shock sensor.

When camera movement is detected, Parking mode will save a 30 second video clip - combining 15 seconds from before mode activation with 15 seconds of footage from after mode activation. Halo's LED indicator will flash **RED** during Parking mode recording, thereafter Halo will automatically revert back to its standby Parking mode condition, signified by the LED turning to a constant **RED**.



**BLINKING RED:** Parking mode recording in progress



**RED:** Parking mode engaged

## USING HALO

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### End Parking Mode Recording

Halo will automatically revert back to Real time Recording when the vehicle's ignition is switched on.

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## Removing the Micro SD card during operation

Should the Micro SD card be removed at any time during normal operation, Halo will reset and then wait for another Micro SD to be inserted. The device may require a reboot in order to register the new card.

### ATTENTION:

Removing the Micro SD card during recording may permanently damage the card.

## Removing power during operation

If power is removed while Halo is in Real time Recording mode or Parking Mode, recording will be discontinued and Halo will power down.



## USING HALO

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### Removing power during operation (cont)

If power is removed while Halo is in Event or Manual mode, recording of the incident will continue until the end of the 15 second period before your device automatically powers down\*.

\* Please note: If power is removed the length of the clip recorded will be determined by battery charge at the time of event.





Installing Halo Player  
Halo Player operation  
Halo device setup

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## Installing Halo Player

Software for configuration and video playback (known as "Halo Player") is included on the USB stick supplied with Halo.

Insert the USB stick into your computer and double click the "Halo Player" file to install the software in your preferred location. Please be aware Halo Player also installs a third-party decoder called FFDshow.

### ATTENTION:

Before installation please check that you are in possession of the latest software version by visiting [www.roadangelgroup.com](http://www.roadangelgroup.com).

The Road Angel Halo Player is compatible and supported on the following operating systems:

Windows 7 (32/64 bit)

Windows 8 (32/64 bit)

Windows 8.1 (32/64bit)

# USING HALO PLAYER

## Halo Player Operation



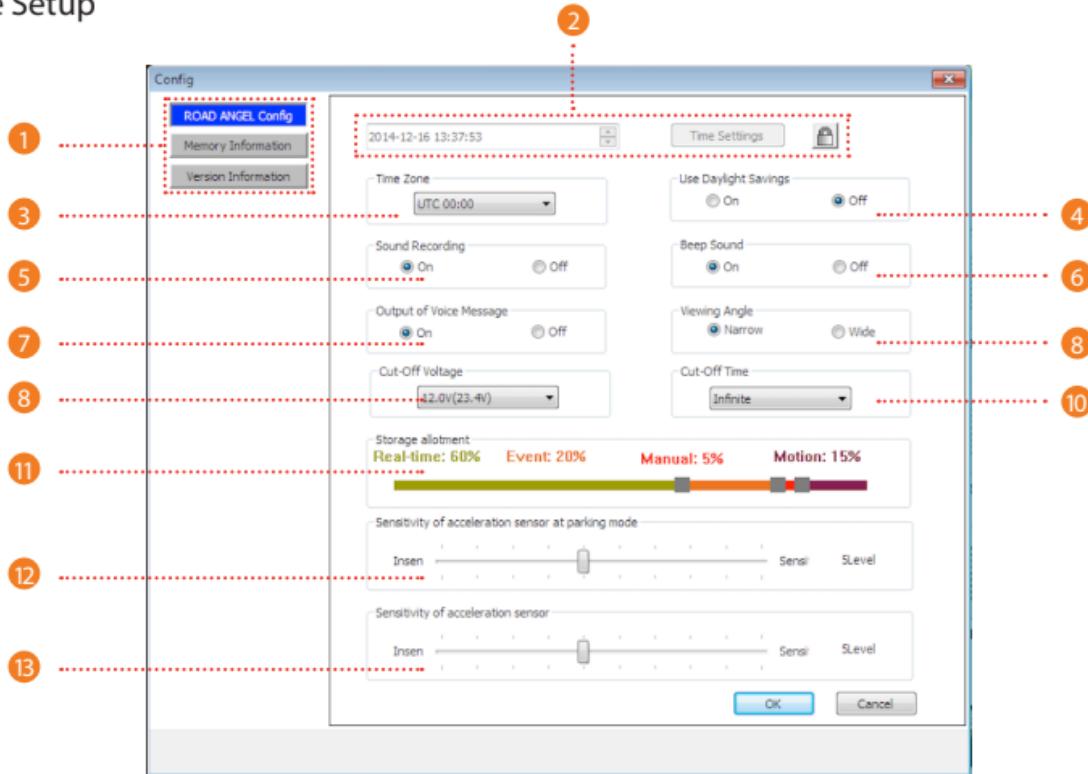
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## Halo Player Operation

1.	Video Playback Screens	Front and rear video footage is played back in these areas.
2.	On-Board Display	Displays detailed real time information about the journey.
3.	G-Sensor Graph	Click here to view realtime G-Sensor information.
4.	Reverse Footage	Inverts video image.
5.	Capture Images	Captures a screenshot of the current video frame.
6.	Setup Options	Opens the camera setup screen - see page 32.
7.	Toggle Footage	Switches video playback between front and rear footage.
8.	Google Map Show/Hide	Shows or hides the Google map window.
9.	View Wide/Small Map	Increases the size of the Google map window.
10.	Video Category Tabs	Filters between all recorded files.
11.	Recorded Video Lists	Displays all recorded videos.
12.	Timeline	Shows duration of clip, allowing you to explore in detail.
13.	Volume	Volume control for audio playback.
14.	Playback Speed	Control the playback speed of the video.
15.	Video Control Bar	Various controls for video playback.

# USING HALO PLAYER

## Halo Device Setup



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## Halo Device Setup

1.	Tabs	Toggle between configuration, memory info & version info.
2.	Time	Not required when using Halo.
3.	Time Zone	Set the time zone in which you are driving.
4.	Daylight Saving	Turn On/Off daylight saving time.
5.	Sound Recording	Turn On/Off sound recording (can also be controlled from Halo device.)
6.	Beep Sound	Turn On/Off 'beep' alerts generated by Event mode activation.
7.	Voice Messages	Turn On/Off voice alerts.
8.	Viewing Angle	Increase or decrease the camera viewing angle.
9.	Cut-Off Voltage	For use with hardwire kit, select the voltage at which Halo powers down.
10.	Cut-Off Time	For use with hardwire kit, select the cut-off time at which Halo powers down.
11.	Storage Allotment	Set how much memory space is given to each recording mode on the SD card.
12.	G-Sensor Control	Parking mode, control the G-Sensor sensitivity for Event recording activation.
13.	G-Sensor Control	Real time, control the G-Sensor sensitivity for Event recording activation.



Control button overview  
LED guide  
Voice / audible alert guide

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## Control Button Overview

Mode	Press Button Once	Press Button Twice	Press and Hold Buton
Real time Recording	Turn microphone on/off	Start manual recording	Format SD Card
Manual Recording	No action	No action	No action
Event mode Recording	No action	No action	No action
Parking mode Recording	No action	No action	Format SD Card

## OTHER INFORMATION

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### LED Guide

	Front Camera		Rear Camera
Action	Rear LED	Front LED	LED
Boot Up	RED ON	OFF	ON
Real time Recording	BLUE ON	OFF	ON
Manual Recording	RED FLASH	OFF	ON
Event Recording	RED FLASH	OFF (Real time recording) BLUE FLASH (0.5 SEC - Parking mode)	ON
Parking Mode Standby	RED ON	BLUE FLASH (1 SEC)	ON
Parking Mode Recording	RED FLASH	BLUE FLASH (0.5 SEC)	ON
No Micro SD Card inserted	RED/BLUE FLASH	OFF	ON

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## Voice / Audible Alert Guide

Mode	Voice Message / Sound Effect	Remark
Boot Up	Long Beep	Sound Effect
Start Real time Recording	Short Beep	Sound Effect
Real Time Recording Event Mode Activation	Short Beep	Sound Effect
Start Parking Mode Recording	"Parking Mode is on"	Voice Message
Notify of event while parked	"Video was recorded during parking mode"	Voice Message
No Micro SD Card inserted	"Please insert memory card. Not recording"	Voice Message
SD Card Format	"Memory card is formatting. Please wait"	Voice Message
Before power off	Short Beep	Sound Effect

## **ROAD ANGEL Group Ltd**

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